Application No.: 10/534,195

## **Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**

1. (currently amended) An electronic thermostat for <u>use with</u> a <u>liquid heating apparatus</u> <u>heated beverage dispenser</u> having a container in which liquid is contained and a heater that is operable by electrical power to heat the liquid, the electronic thermostat comprising:

a mechanical switch through which electrical power is applied to the heater to increase a temperature of the liquid from an initial temperature toward a target temperature, and:

a solid-state switch through which electrical power is applied to the heater to maintain the temperature of the liquid at substantially the target temperature.: and

a controller, wherein the controller is programmed to implement a partial or complete proportional-integral-derivative algorithm for controllably heating liquid to produce a beverage, the controller being coupled to the mechanical switch and the solid-state switch.

2. (currently amended) A method of heating a liquid a beverage dispenser, the method comprising:

operating a mechanical switch to apply power to a heater to heat the liquid from an initial temperature toward a target temperature, and;

operating a solid-state switch to apply power to the heater to maintain the liquid substantially at the target temperature-; and

the mechanical switch and the solid-state switch being controlled by, and coupled to a controller, wherein the controller is programmed to implement a partial or complete proportional-integral-derivative algorithm for controllably heating liquid to produce a beverage.

3. (currently amended) In a beverage brewing apparatus, an electronic thermostat for <u>use</u> with a liquid heating apparatus heated beverage dispenser having a container in which liquid is contained and a heater that is operable by electrical power to heat the liquid, the electronic thermostat comprising:

a mechanical switch through which electrical power is applied to the heater to increase a temperature of the liquid from an initial temperature toward a target temperature, and:

a solid-state switch through which electrical power is applied to the heater to maintain the

Application No.: 10/534,195

temperature of the liquid at substantially the target temperature-; and

a controller, wherein the controller is programmed to implement a partial or complete proportional-integral-derivative algorithm for controllably heating a liquid to produce a beverage, the controller being coupled to the mechanical switch and the solid-state switch.

(currently amended) A method of heating a liquid for use in with a beverage brewing apparatus heated beverage dispenser, the method comprising:

operating a mechanical switch to apply power to a heater to heat the liquid from an initial temperature toward a target temperature, and;

operating a solid-state switch to apply power to the heater to maintain the liquid substantially at the target temperature-; and

the mechanical switch and the solid-state switch being controlled by, and coupled to a controller, wherein the controller is programmed to implement a partial or complete proportional-integral-derivative algorithm for controllably heating liquid to produce a beverage.

(currently amended) An electronic thermostat kit for use in combination with a liquid 5. heating apparatus heated beverage dispenser having a container in which liquid is contained and a heater that is operable by electrical power to heat the liquid, the electronic thermostat kit comprising:

a mechanical switch through which electrical power is applied to the heater to increase a temperature of the liquid from an initial temperature toward a target temperature, and;

a solid-state switch through which electrical power is applied to the heater to maintain the temperature of the liquid at substantially the target temperature-; and

a controller, wherein the controller is programmed to implement a partial or complete proportional-integral-derivative algorithm for controllably heating liquid to produce a beverage, the controller being coupled to the mechanical switch and the solid-state switch.

(currently amended) An electronic thermostat for use with a liquid temperature modifying 6. apparatus heated beverage dispenser having a container in which liquid is contained and a temperature modifier that is operable by electrical power to at least one of heat or cool the liquid, the electronic thermostat comprising:

a mechanical switch through which electrical power is applied to the temperature

Application No.: 10/534,195

modifier to change a temperature of the liquid from an initial temperature toward a target temperature, and;

a solid-switch through which electrical power is applied to the temperature modifier to maintain the temperature of the liquid at substantially the target temperature-; and

a controller, wherein the controller is programmed to implement a partial or complete proportional-integral-derivative algorithm for controllably heating liquid to produce a beverage, the controller being coupled to the mechanical switch and the solid-state switch.

- (original) A method of modifying the temperature of a liquid, the method comprising: 7. operating a mechanical switch to apply power to a temperature modifier to change the temperature of a liquid from an initial temperature toward a target temperature, and operating a solid-state switch to apply power to the temperature modifier to maintain the liquid substantially at the target temperature.
- (new) The method of claim 7, wherein the temperature modifier is a cooling element. 8.